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Amendments to the Drawings

The attached sheets of drawings are formal replacements for all of the drawings previously submitted.

Attachment: Replacement Sheets 1/2 through 2/2

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REMARKS

The Examiner objected to the drawings. Accordingly applicants are providing formal drawings replacing all previous drawings, and including the Prior Art notation of Fig. 1 as requested by the Examiner.

The Examiner rejection of claims 1, 3 and 4 are moot in view of the amendment incorporating elements of claim 2, as well as additional clarifying details into amended claim 1. Claim 2 has been canceled.

Claim 2 was rejected as obvious over Nara, in view of Gumm and further in view of Limberg. Claim 2 has been amended to further clarify that the frequency offset is adjusted by a variable amount. This enables the instrumentation receiver to position the narrow band IF over an area of interest for generating a trigger based upon the higher dynamic range A to D converter(ADC), while still taking measurements over the wideband IF signal. In addition, claim 2 as amended makes clear that the ADC converts the narrowband signal. As is clear from items 19 and 29, which were cited to provide narrowband filtering, these filters are provided after the ADC such that the ADC would be operating on a wider bandwidth signal decreasing the dynamic range, which is desired in the present application.

Even under the new Obviousness Guidelines the references, as well as the claimed invention, should be taken as a whole. See MPEP § 2141.02 The present case relates to an instrumentation receiver for making measurements of RF signals, while Limberg relates to a TV receiver tuner. In a TV receiver the offset is provided to direct the narrowband to a set offset for proper reception. In a measurement instrument, the offset is variable to allow detection and measurement of possible anomalies. The intended purposes as well as the structures as a whole do not support a combination of these two references. Rather, the rejection is trying to take items piecemeal from the Limberg reference, and even so the elements are not arranged as claimed in amended claim 1. Accordingly, Applicants respectfully request allowance of claim 1, as amended.

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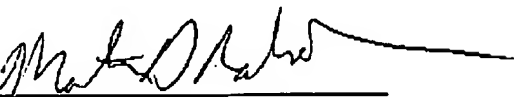
Claims 3 and 4 depend from amended claim 1 and should be allowable for at least the reasons provided above in connection with claim 1.

Claim 5 was rejected as obvious over Nara in view of Gumm and further in view of Ly. Ly relates to a system and method for producing a pilot signal in a distortion reduction system. Ly provides an offset where the desired offset is used to position the pilot signal lower than the lowest carrier signal or radio channel. This does not allow the offset to be varied to cover a desired subsection of the wideband signal. As the pilot signal is being introduced to assist in measuring and correcting distortion, it needs to be placed lower than the lowest channel. In the present method the desire is to look for signals in an area of interest by using a higher dynamic range in a narrowband. As the area of interest can be anywhere within the wideband area, only offsetting to a lower position would not be appropriate. Again, taking the references and the present method and considering their teachings as a whole, rather than piecemeal, with the benefit of hindsight, would not provide an obvious combination to produce the present method. Applicants respectfully request allowance of claim 5.

In view of the foregoing remarks allowance of claim 1 is urged, and such action and the issuance of this case together with claim 2 (containing patentable subject matter and dependent from claim 1) are requested.

Respectfully submitted,

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